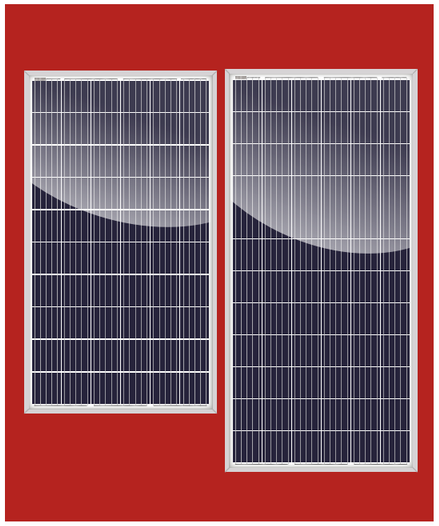
solinc
east africa ltd.

Large Solar Modules
280 / 285 / 345 Wp



>19.0%
CELL EFFICIENCY

10 YEAR
PRODUCT WARRANTY

25 YEAR
LINEAR WARRANTY

Designed in Europe

The use of European production knowledge and carefully selected components are the foundation for our top quality solar modules.

Solinc ensures up to date technology, durability, and the reliable high performance that our panels have become well known for.

+ W/m² High Power Density

High conversion efficiency and more power output per square meter.

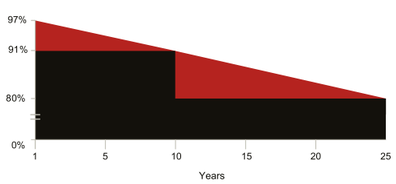
Durability

DURABLE

Durable PV modules, independently tested for harsh environmental conditions such as exposure to salt mist, ammonia and PID risk factors.

Advanced Glass

Our high-transmission glass features a unique anti-re flective coating that directs more light on the solar cells,resulting in a higher energy yield.



(0.7% annual degradation, 80% after 25 years)

QUALIFICATIONS & CERTIFICATES

SYSTEM CERTIFICATIONS : ISO 9001:2008, ISO 14001:2004

ELECTRICAL PROPERTIES AT STC*

Model	Solinc EA280	Solinc EA285	Solinc EA345
Maximum power P_{max}	280 Wp	285 Wp	345 Wp
Current maximum power point I_{mpp}	8.83A DC	8.93A DC	8.96A DC
Voltage maximum power point V_{mpp}	31.7V DC	31.9V DC	38.5V DC
Open circuit voltage V_{oc} (STC)	38.5V DC	38.7V DC	46.8V DC
Short circuit current I_{sc}	9.54A DC	9.65A DC	9.68A DC
Module Efficiency (ηm)	17.21%	17.52%	17.78%
Maximum system voltage (V)	1000V DC		
Maximum series fuse rating(A)	15A		
Power tolerance	±5%		
Diode	6x10A		

MECHANICAL PROPERTIES

Model	Solinc EA280	Solinc EA285	Solinc EA345
No. of cells	60 (6x10)		72 (6x12)
Cell type	Polycrystalline Cell		
Cell size	156.75x156.75mm		
Module dimensions	1640x992x35mm		1956x992x40mm
Weight	18.5kg		22kg
Front cover (material / thickness)	low-iron tempered glass / 3.2mm		
Frame (material)	Anodized aluminum alloy		
Junction box (protection degree)	IP68		
Cable (length / cross-sectional area)	1100mm / 4.0mm²		
Plug connector (type / protection degree)	MC4/IP68		

*STC (Standard Test Condition):
- Irradiance 1000W/m²
- Module temperature 25ºC
- Spectrum AM 1.5

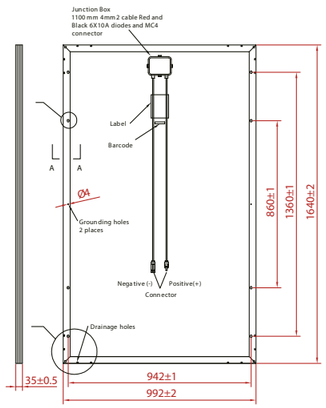
THERMAL CHARACTERISTICS

Nominal operating cell temperature	NOCT	°C	45±2
Temperature coeficient of P_{max}	γ	%/°C	-0.40
Temperature coeficient of V_c	β_{Voc}	%/°C	-0.32
Temperature coeficient of I_c	α_{Isc}	%/°C	0.05

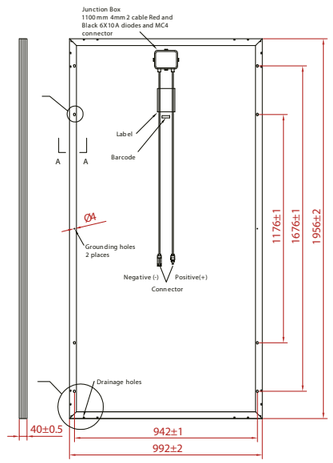
OPERATING CONDITIONS

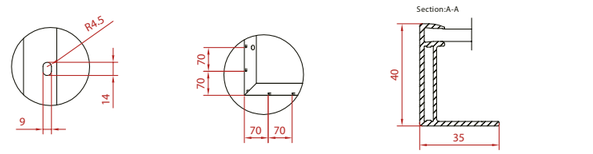
Operating temperature range	-40°C to 85°C
Max. static load, front (e.g., snow)	5400Pa
Max. static load, back (e.g., wind)	2400Pa
Max. hailstone impact (diameter / velocity)	25mm / 23m/s

280W/285W



345W





Warning : Read the Installation and User Manual in its entirety before handling, installing, and operating Solinc Solar modules.

• Due to continuous innovation, research and product improvement, the specifications in this product data sheet are subject to change without prior notice. The specifications may deviate slightly.
• This data does not refer to a single module, however it is composite. This only serves as a technical guide for the stated module models.

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